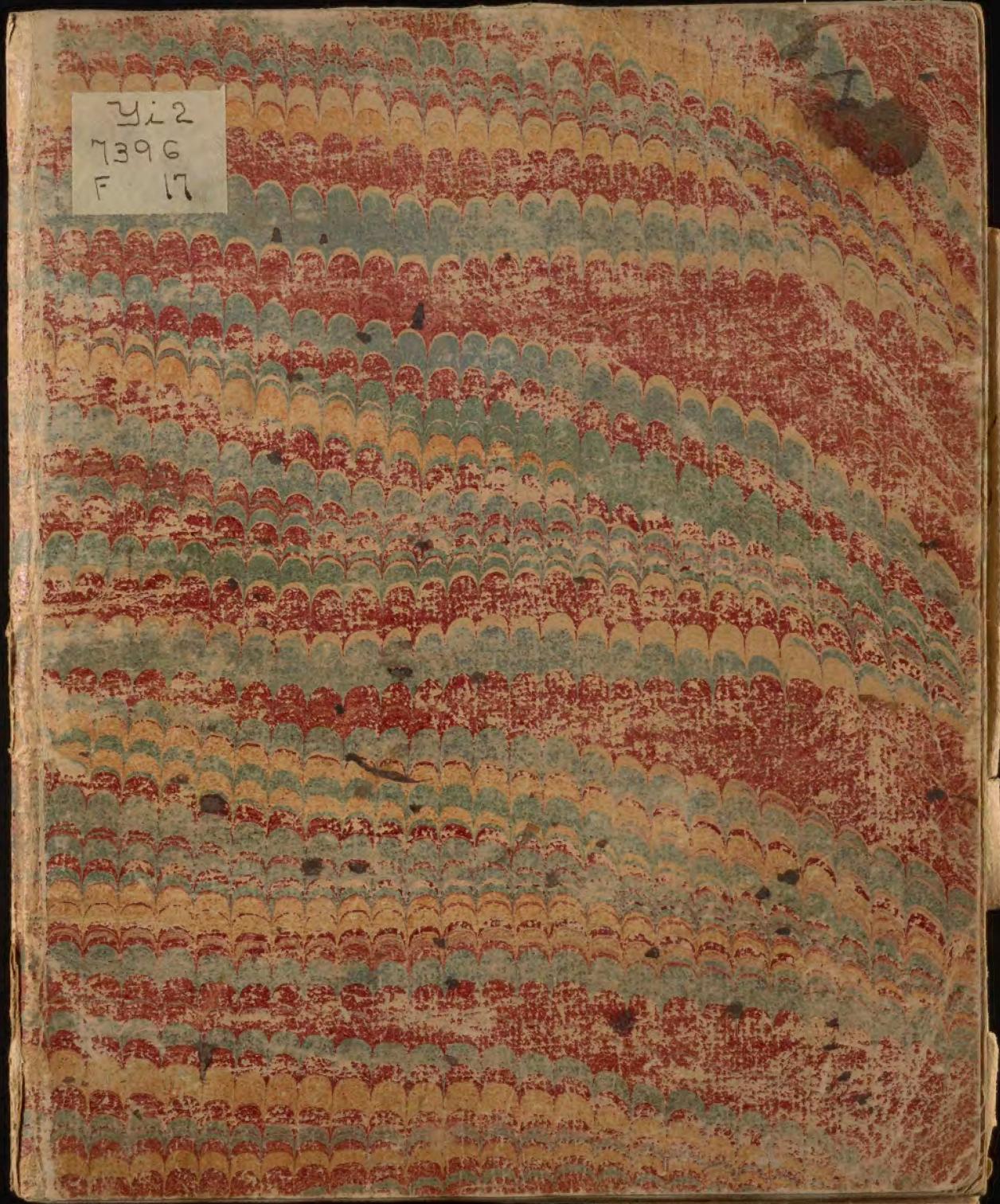
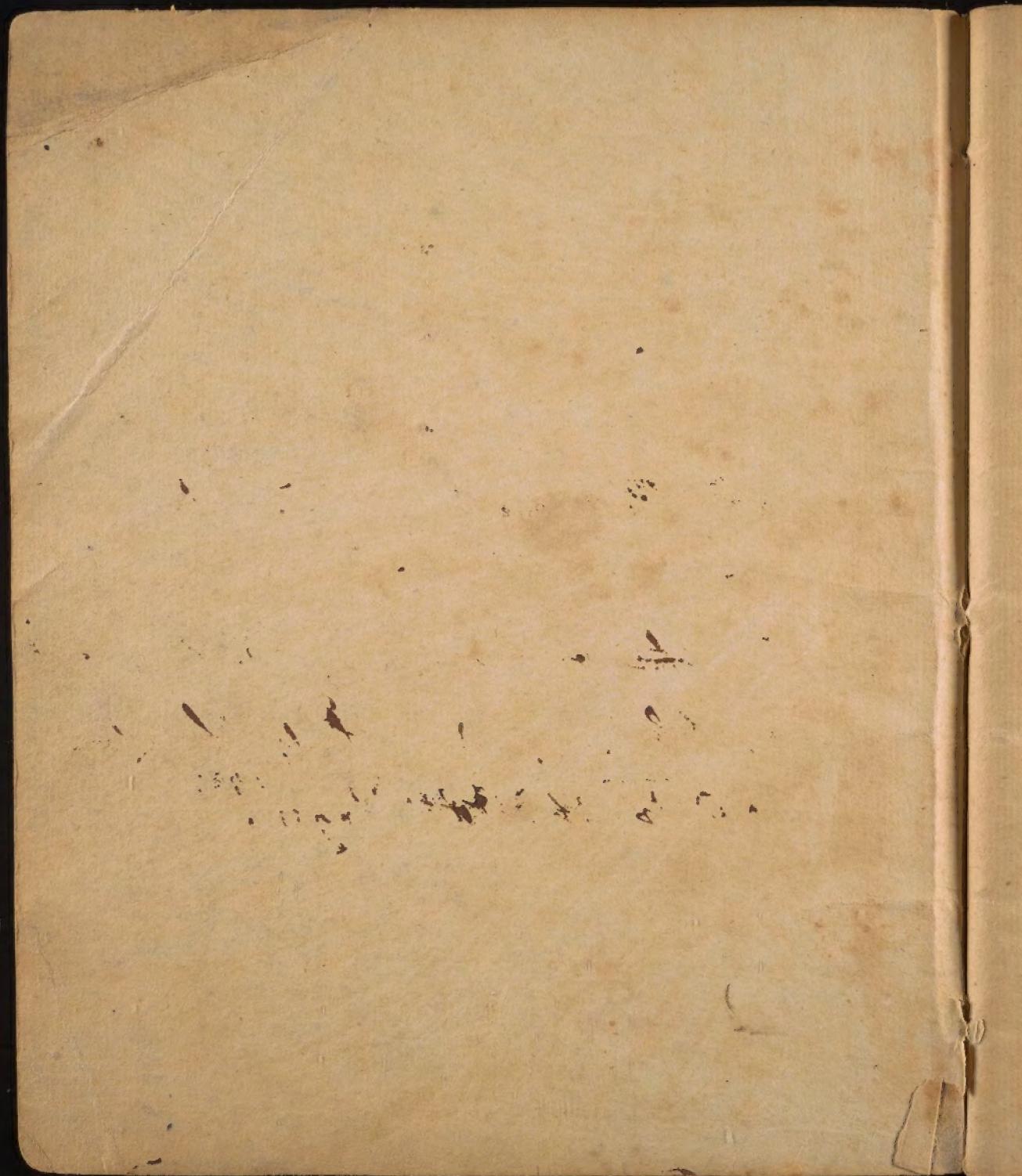


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Lectures on
Pathology -

began Feb: 4th 1793.

use of Diseases - 6.
~~most~~ ~~be~~ ~~indirect~~ ~~ability~~ 26.
~~most~~ ~~be~~ ~~physical~~ ~~use~~ 26
of Heat — 29.

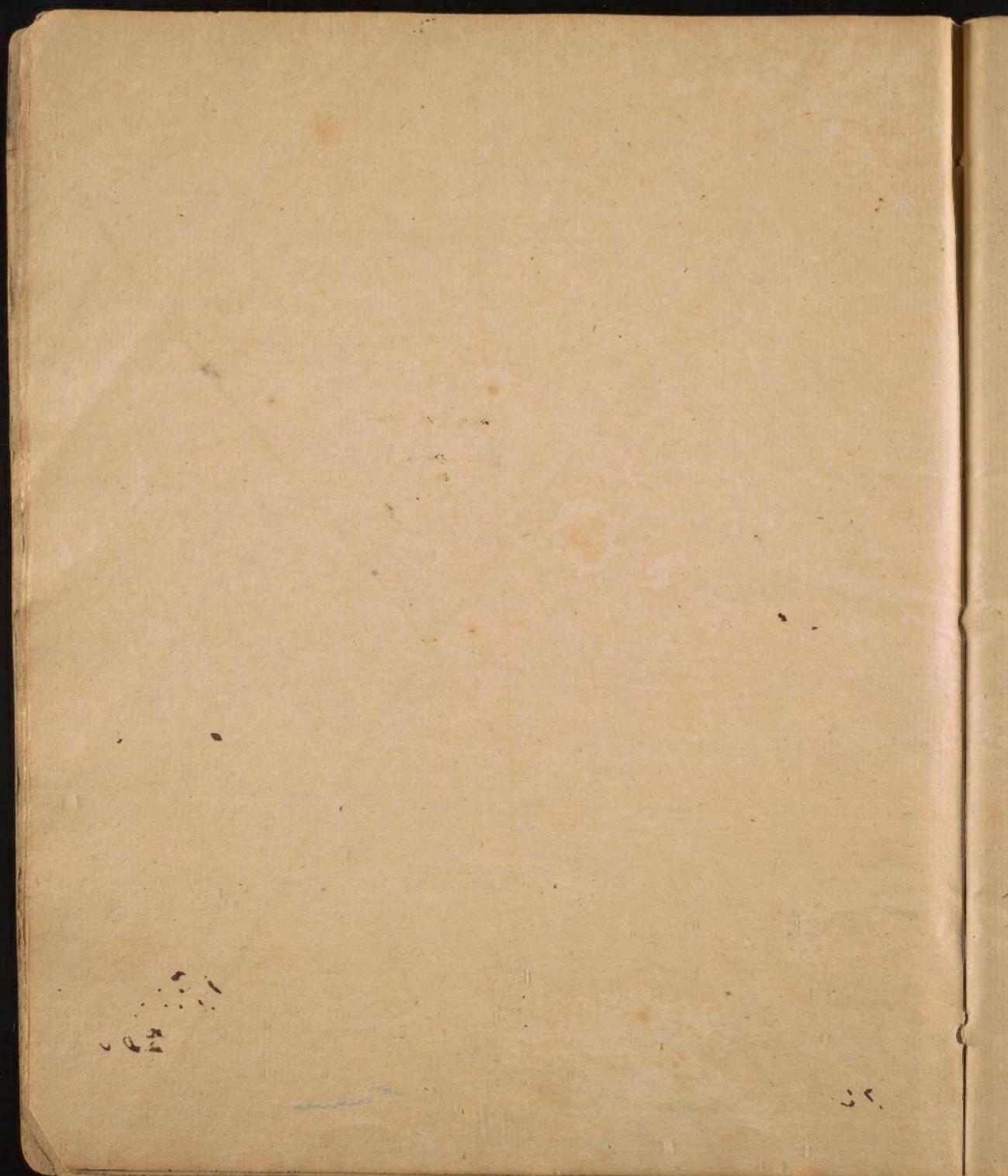
Began in 1804 Decm^r 10th
— in 1805 Decm^r 19th
— in 1808 Decm^r 13.

✓ I have hitherto ^{considered} the human body, as Divines consider the human mind in paradise, viz in a less perfect, or healthy state. It remains now that we view this body, as Divines view the mind after the fall, viz in an ~~state~~ imperfect or diseased state. Sickness, ^{& death} like moral evil ^{were} the consequence of the loss of, moral innocence.

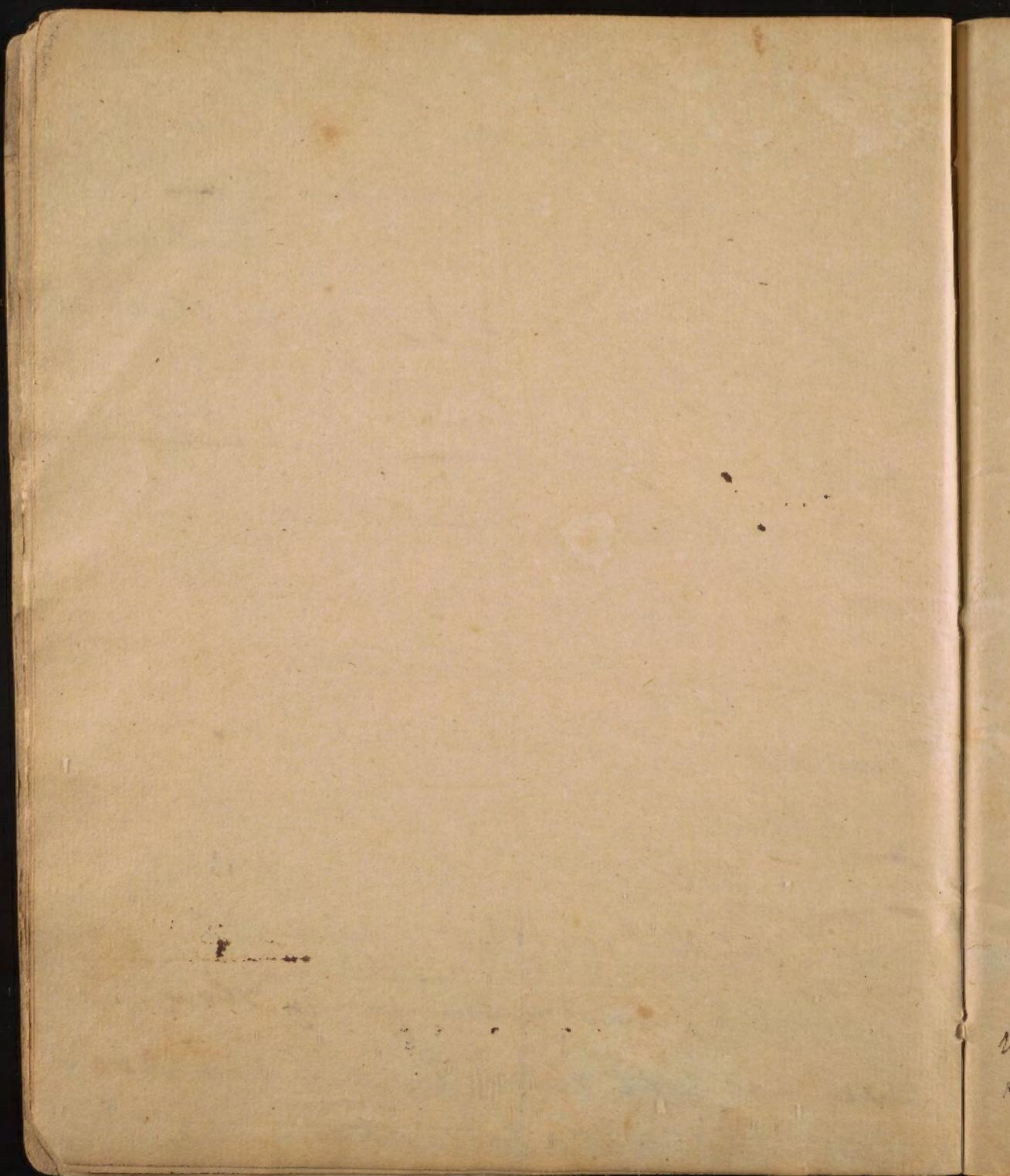
Gentlemen, V

~~In my introductory lecture of
in my lectures on Physiology &
informed you that I intended to follow
Pathology, the example of the divines who ^{at} consider
the ⁱⁿ man ⁱⁿ a state of innocence,
the ~~human~~ ^{and} in a state of ^{disorder}
and afterwards ^{desire} by it in the
vices & weaknesses
which were introduced into his
mind by his apostasy from his maker.~~

- I have hitherto considered the human
body only in ~~that~~ ^{its} state of healthy states.
It remains now that we follow it
from the gates of Eden, and examine
the changes which have been pro-
duced upon it by the bays & thorns,

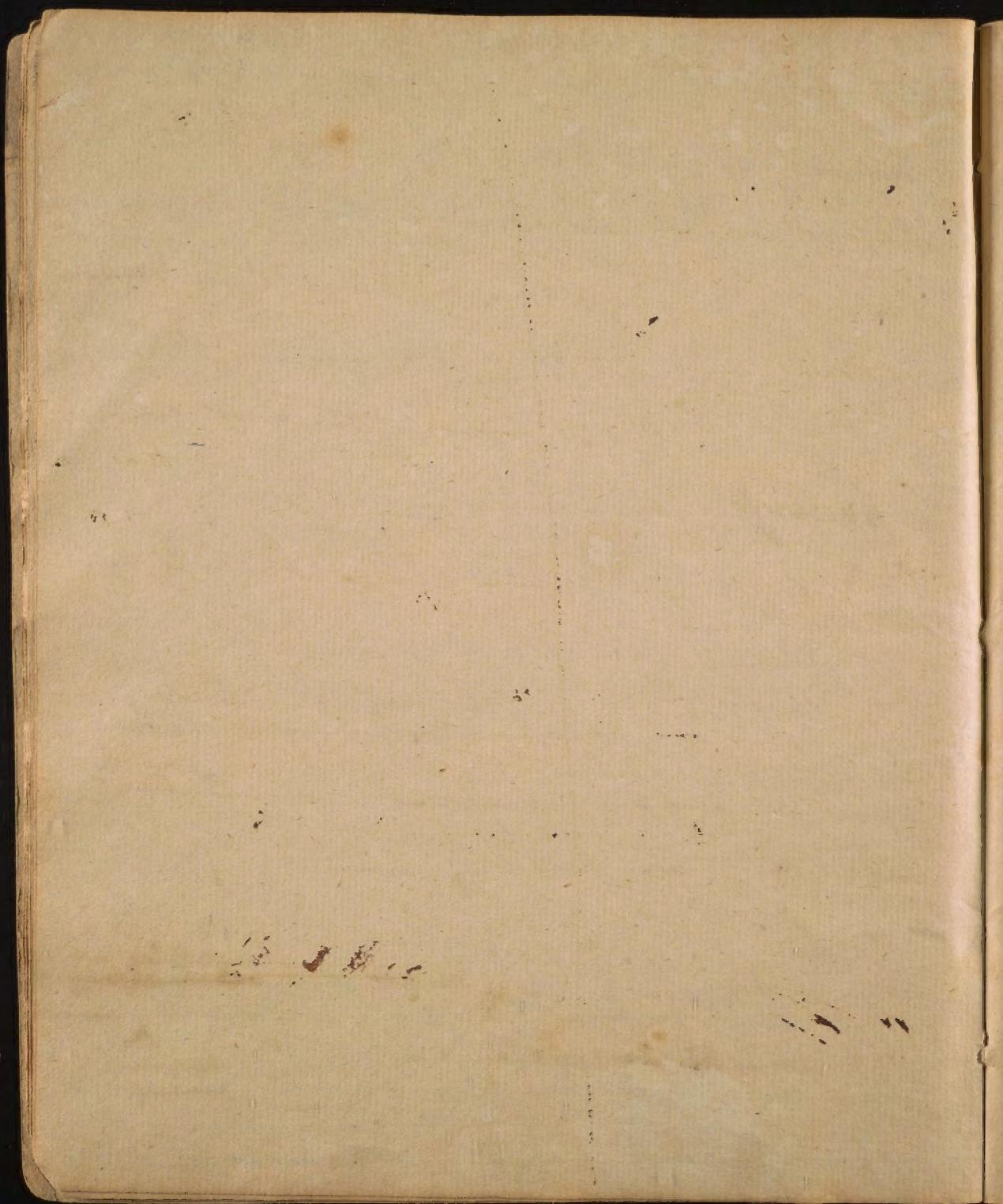


and by the storms & tempests to which
it was exposed in consequence of the
loss of natural innocence. To this the
fall of man we must ascribe the origin
of sickness and death. It is true the execu-
tion of the sentence of death which was
pronounced against ~~man~~ was delayed
beyond the day of his apostasy, but the
causes which finally produced it began
to act upon his system as soon as he
lost the image of his maker. Every
element in nature took part with
his offended creator, and conspired to de-
stroy ~~man~~ life. This operation for
a while was ^{fumble and} slow. Hence
we read that man for the first 2000
years after the fall, attained to the



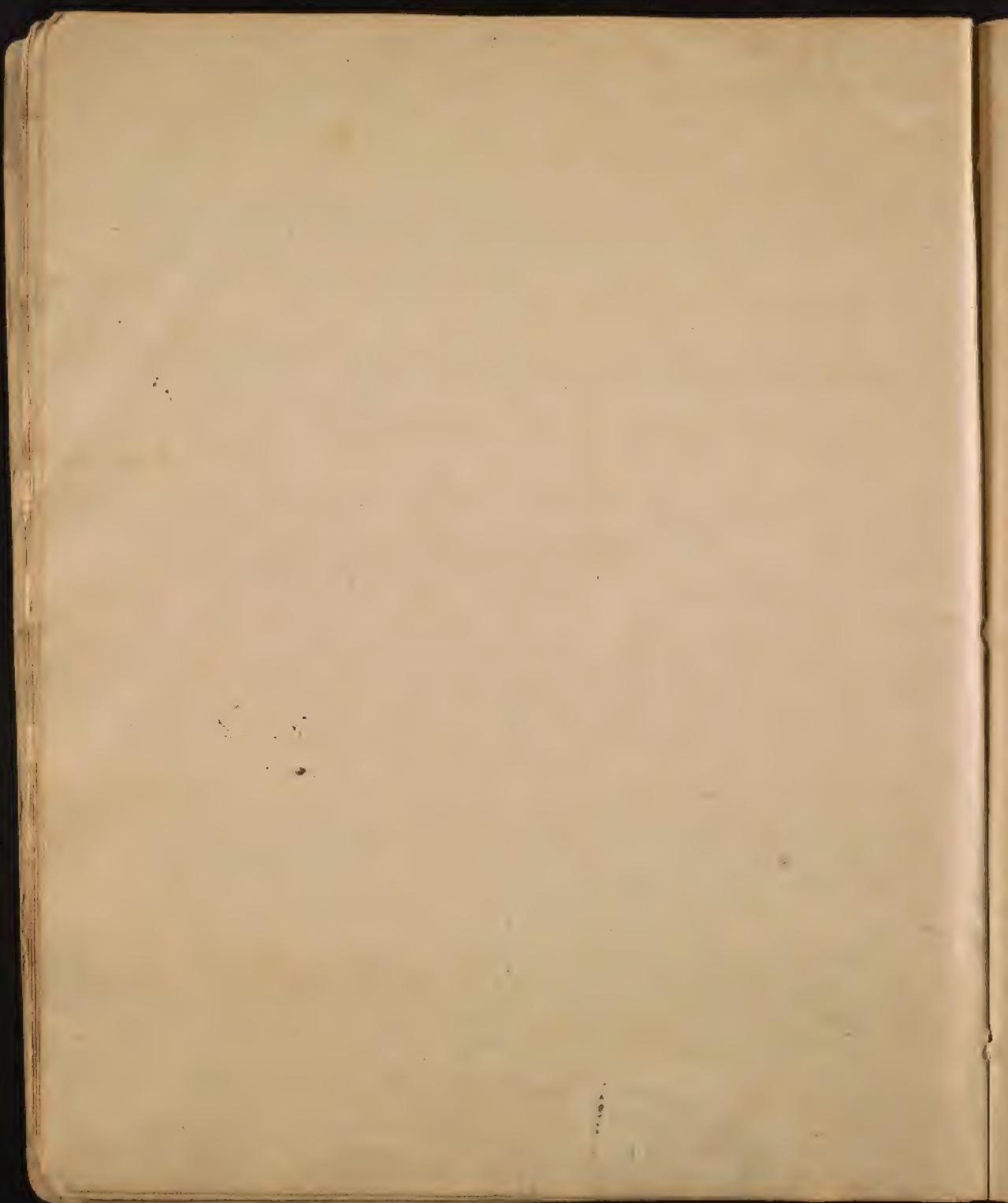
It was
 great age of nearly 2000 years. It was
 known not till after the deluge that the
 life of man was contracted to its present
 limits. Many causes have been supposed
 to have produced this change in the duration
 of human life. — One of the most common
 & powerful has been the influence of the
 Deluge on the surface of the earth & upon
 the temperature and quality of the

Atmosphere — ~~whereby unwholesome~~
~~inhalations were rendered~~ But other causes seem
 only the earth, — and air, but
 the sea — all our abodes & dwellings,
 — all our occupations, — & pursuits ~~and~~ ^{and reptiles —}
 wild & domestic animals — may
 even our very pleasures, all ^{now} to
 have taken part with ^{the} ~~the~~ offenders



majority of human, to ⁴
~~Locates~~, and have conspired to destroy
the life of man. That life is ^{the effect} exposed
of ~~ignorance~~
~~life therefore, and preserved only by the~~
~~operation~~
~~of counteracting ~~stimuli~~ appears~~
~~to be to be no less consonant to religion~~
than to true Philosophy. — It would
seem as if the principle or quality ^{that has}
been ^{the offspring of} called life was ~~consciousness of~~ a constant
Strife, and that it owed its existence
for 20-30 ^{or 100} - 70, years wholly to the tem-
porary victory of the ~~stimuli~~ ^{get to p. 10} I found
in the battles upon animal life,
by eliminated, over the classes which
conspired to extinguish it. —

In ~~ppm~~ entering upon the history of
the numerous & distressing diseases to
which the human body is exposed, ~~as~~



Let us not

5

~~we are apt to~~ assign the divine good.
-ness, or suppose that the benevolent father
of the human race delights in the
misery of his creatures. This is so far
far from being the case, that ~~as we~~^{dis}ease
are all blessings in disguise, and
in the present imperfect state of hu-
-man nature are absolutely necessary
to individual as well as to general
happiness. To ~~so~~ console us under a
view of the melancholly ~~list~~^{chart} of human
misery from this quarter which I
shall shortly lay before you, I shall
briefly mention the important
uses which diseases are probably
intended to answer in the present

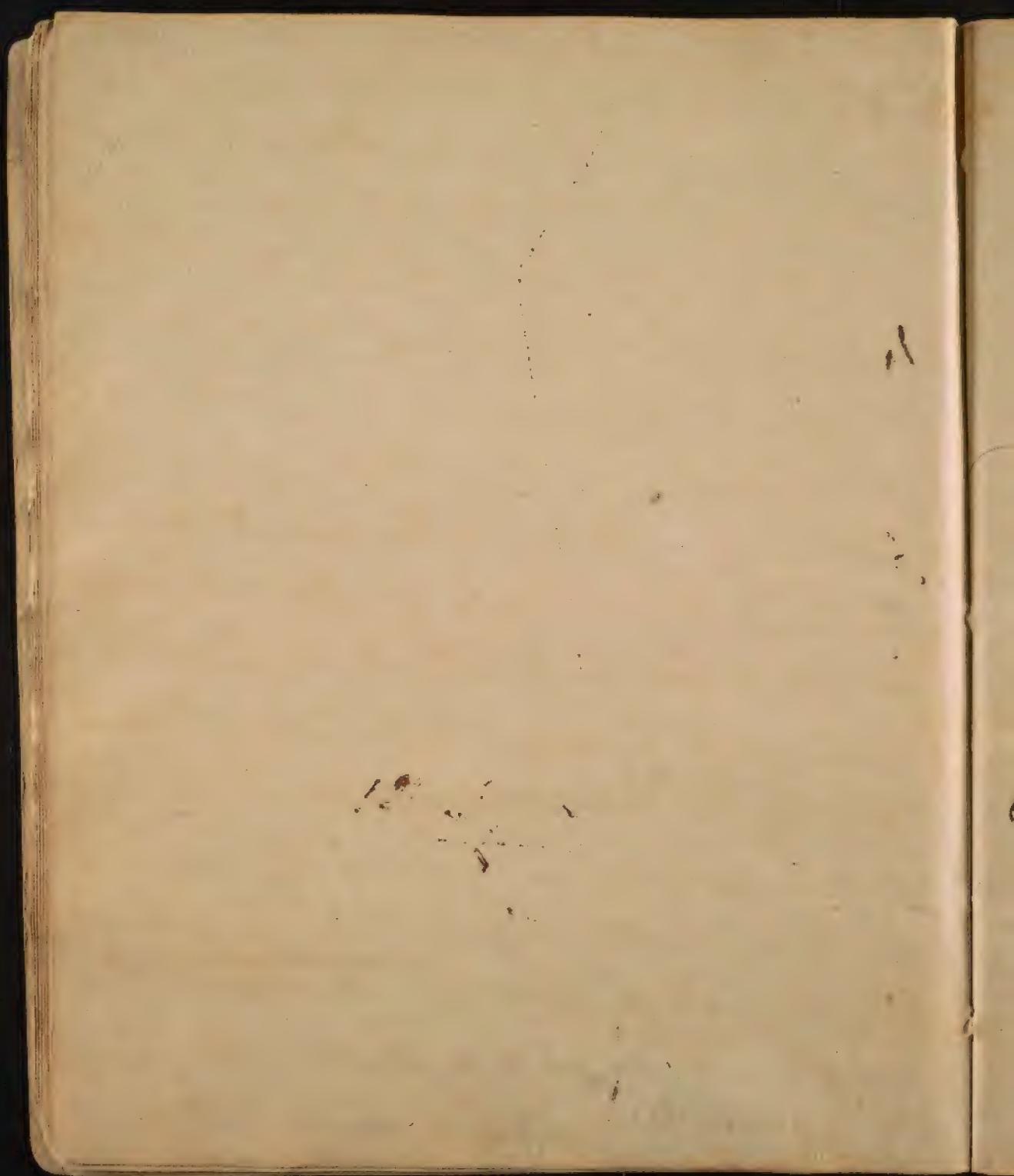
V2 Diseases have been the means
not only of impelling us to
the study of Anatomy, but of
promoting physiological knowledge.

- By examining the ~~actions~~ functions
of the body in a diseased state,
we become acquainted with their
natural actions in a healthy state.
+ in order to discover ~~similarities~~ ^{similarities} in
them for the use of those diseases, and ~~thus~~
~~renders~~ ^{this} make us acquainted with
Botany, Chemistry & natural history.

State of things.

1 Diseases lead us to the study of anatomy, whereby we are led to admire the wisdom of and goodness of the Supreme Being ^{which} are manifested in the structure of the human body. without such objects as the removal of diseases, or the preservation of health, who would even submit to the task of dissecting dead bodies, a business which is entered upon with horror, and rendered tollerable only by habit ~~or~~ ^{and} ~~receptivity~~. - ✓

2 Diseases lead us to study the works of ~~creation~~ ⁱⁿ the vegetable - animal & mineral kingdoms. ^{+ and thereby and} without them, we should have no Botanists - Chemists or Naturalists. ~~These have all been~~



Physicians without whom the works
of nature in these kingdoms would
have been explored for unknown and
unadvised by the children of men.

4 Diseases furnish excellent opportu-
nities for the exercise & improvement
of the mental faculties.

5 There would have been but few
opportunities without disease, for the
causes of that humanity & generosity
which are the perfection of our nature,
& which cause us to resemble the
great father of ^{the Universe} ~~man~~. Hospitals &
dispensaries include a large portion
of human misery. If these were
abolished, human virtue would
languish for want of opportunities

the
most — they often under death
desirable ^{to} us. Did we ~~quitting~~ relinquish
comfortable residence in this world,
in the full enjoyment of health, and
of all the blessings that are connected
with it, death would be terrible to us
beyond the possibility of enduring it, but
diseases, ^{an kindly sent to} reconcile us to its approach —
may more ^{than} often under it ^{in many instances} desirable. But
of Diseases, ^{the} pain & suffering which
they create in our friends, reconcile us
to their death, ^{likewise, & sometimes even} ~~more~~ ^{than} often

to display the celestial virtue of charity.

As the painful heats of summer, & colds of winter, are necessary to render the temperature of Spring delightful, as darkness gives charms to light; as deformity renders beauty captivating, as evil is necessary to lead us to good, and as enmity serves to enhance the pleasure of discovering truth, so

in like manner diseases are necessary
to impart a ^{proper} relish for health,
the inestimable blessing of

~~Q Descanso up ~~comes our passage~~~~
Our passage out of the world leads
immeasurably to the sufferings, delusions dis-

~~tripping to the Divinities~~

~~Dr. J. C. H. discourses before his physical.~~

cause us to look with solicitude, & to
rejoice in the moment which by ter-
minating their present existence, ^{will} pro-
per end to their misery.

V ~~proves~~ conduces very much to ~~the same~~
~~time~~ promote vigor and activity of mind --
it informs us in many cases of the first
of diseases - and above all it is the harbinger
or sign of disease as to impel sick people to
desist from ~~too~~ much presents as would
excite those diseases themselves & to seek ~~for~~
~~medical~~ rest or medical aid for relief.
It is a remedy in many diseases.
How the ~~go~~ beneficial effects of pain ~~are~~

best seen in the fatal or disturbing effects
of those diseases in which pain is not
an early constant symptom, - these are
cancers - consumptions - chronic inflam-
mation of the liver - and from tumors. - In the

9 Diseases by their physical
influence upon the moral faculties
create and improve human virtue, and
thus add to the general welfare of human
beings. ~~But to return to~~ ^{have} Hundreds and thousands of people, ~~and~~ have
moral habits, and all the happiness that
is connected with them both here, and
hereafter to ~~and~~ ^{and} an attack of
a violent - painful, or dangerous disease
~~is a~~ ^{= A} ~~cretes~~ passive virtue ^{is far more}
~~castles~~ ~~but~~ ~~dragged~~ ~~with~~ ~~their~~ ~~body~~
~~born~~ ~~than~~ ~~that~~ ~~which~~ ~~is~~ ~~active~~ ~~del~~ ~~is~~ ~~more~~
~~infection~~ ~~I~~ ~~proceed~~ ~~to~~ ~~the~~ ~~subject~~ ~~our~~
not a great man says, ~~you~~ ~~man~~ ~~who~~ ~~can~~ ~~perform~~
~~nothing~~ ~~but~~ ~~great~~ ~~things~~, as he is that can
10. ~~lastly~~ ~~suffer~~ ~~of~~ ~~great~~ ~~deal~~ ~~of~~ ~~pain~~
~~but~~ ~~only~~ ~~disagreement~~ ~~we~~ ~~have~~ ~~hitherto~~
~~there~~ ~~combined~~ ¹ mentioned the effects of diseases & pain, but
pain alone has many ~~far~~ ¹ advantages
connected with it. It ~~is~~ is probably one of
the first impressions of on the animal body
in the production of life ~~and~~ It certainly

last, the toes are often destroyed ~~before~~ without
pain, and the cold thereby permitted to
affect the whole body with disease &
death. With this short introduction I
proceed to our pathology.

From the Universality, Certainty & Advantage
of Diseases, we are led to consider them as the
a part of the natural portion of man, not
as adventitious ~~and~~ incidents, ~~so~~ but as a
part of the natural portion of man. ~~The~~
~~so the common practice~~ we ~~common~~ ^{feel}
gain in our entrance into the world. ~~so~~ This
is so universal, that we are disposed when
a child does not recover ~~say~~ we are
very when grown up

In entering upon this part of my course I am left with ~~but a few~~ ^{few} resources from books that my predecessor ~~had~~ ^{had} given me from ~~and~~ ^{the} ~~other~~ ^{branches} ~~of~~ ^{of} medicine. ~~He~~ ^{He} ~~got~~ ^{got} ~~the~~ ^{the} ~~books~~ ^{books} There have been but few books published upon

Pathology. Dr. Boscawen began something like a system upon it, but his observations ~~upon~~ ^{upon} it are short & imperfect. Dr. Haller ^{& Dr. Hoffmann} has given us scattered here & there a few in this work a few pathological facts, but they do not amount to anything like a system. Dr. Janthin has given us a system of pathology, but it is so filled with the humoral pathology of his master Dr. Boscawen,

✓ ^{p 11}
There have been many definitions
of disease. It would be a waste of time
to mention most of them. ~~for~~ It is
impossible to deliver one that shall en-
-brace all the properties of disease in all
its forms. The least exceptionable of
any that I have met with is that
which Dr. Sydenham has rejected ^{is nearly}
in the preface to his works. It ~~is~~ ^{is} as
follows "Disease consists in the confused
and irregular operations of ~~confused~~
disordered and debilitated nature." You
will I hope see the propriety of this
definition ^{for} when we come to mention the proximate
cause of disease.
subject of expression & analogy, we

11

and with all is so concise, & obscure
in many parts of it, that a student of
Medicine can derive but little advantage
from it. —

In the wilderness that is before me
first I venture without a guide
or compass. — I shall therefore
pursue Indian or natural methods
in the journey, ~~which I have~~ before
system founded on ~~any~~ principles ~~and~~ which I
~~have delivered in my Key to Physic.~~ —
By Pathology I mean that science
which treats of the ~~causes~~ ^{causes & signs} of diseases.

✓ These links have been divided into
remote - dispersing - uniting - and
proximate (they are all links
of one chain).

~~and, he did not believe that there existed such a creature as an atheist in the world.~~
" You are mistaken said one of the company, - (rising from his chair) - I am an atheist!"

~~equally absurd & equally bold would that man be thought to be who should in many societies of physicians arise up and call himself a theorist in ~~his~~ medical. In ~~the assembly of the~~~~

~~his definition you see it includes every deviation~~

~~departing from ^{moral} beauty as well as physical ~~order~~~~

~~order~~ - ~~assembly~~ which I have

now the honor of addressing. If ~~so~~ it is

~~no mark of courage to make that declaration~~

~~composed of young gentlemen whose minds~~

~~are as yet uncorrupted by the vices of our~~

~~profession~~; it requires no courage to make ~~the love of money~~

that declaration. I profess myself publicly

a theorist in medicine. I came here to teach

the theory of medicine, and ~~would~~ you come

here to be taught the theory of medicine, or

in other ^{words} to exercise your ~~preminence~~ over

the ~~Brutes~~ in reasoning upon the causes of disease.

~~To understand what is meant by a disease it will be necessary to observe that it is a deviation from that state of the human body in which all the functions of both Mind & Body are performed with perfect ease & that is health.~~

~~[By a disease I mean a change in the proportion and order of motions in the solids, and fluids of the body. These changes - singularities - or deficiency of motion are of course a greater effect on the mind as well as the body. -]~~

~~The causes of diseases are divided into two remote - predisposing - precipitating - and proximate. They are ~~all~~ links of one chain - but sometimes ~~they are~~ two of them are blended together so ~~as~~ not to be distinguished from each other. and~~

✓ you are not to suppose that
every disease is produced by their causes,
in the order I have mentioned them. The
remote and the existing cause are very
often ^{the predisposing causes} independent of each other.
The remote & the existing are often blended
together, & act at the same time. E.g.:
strong drink inducing
Intoxication is often a remote existing
cause of a fever. Predisposition to a disease
arising from debility is often so great as
not to ^{require} require an existing ~~action~~ cause
to bring it into ^{the} ~~family~~ action. The
circulation of the blood, or a single act of
the mind is sufficient for this purpose. ~~both~~
+ again - miasma - are the remote cause
of a bilious fever. The debility induced upon this
system is ~~its~~ ^{its} predisposing cause. ~~but~~ but the
debility is often aided by fatigue from exercise.
- Intemperance is its existing cause & a
convulsive action in the blood depels its
predisposing cause. By ^{proximate} cause I
mean with Gambino "Ipso subiecto" the disease
itself.

Sometimes the disease comes from
 both remote and predisposing cause -
 I shall briefly illustrate what I mean by
 each of them. The alternate action of cold
 is the remote cause of inflammation -
 debility induced by this cold is the
predisposing cause - the heat of a tonic
 worn, or of the Vernal fever ^{heat} is the exciting
 cause, - and a convulsion is the material
 system is the proximate cause of
 this fever. ^{The pain - heat - this & the}
 are all symptoms of the proximate cause.
 The investigation of the proximate
 diseases will naturally lead us to speak
 of their seats - these symptoms belongs
 to the practise of physic -
 to another profession. I shall mention
 no more of them, & are necessary to

Before I enter upon the consideration of
the ~~two~~ ~~way~~ ~~ways~~ of the proximate cause of disease.

✓ By the proximate cause of disease I
mean with Gantiers - "ipse morbus" ~~the~~
disease itself. I am aware of the Objections
to which this account of the proximate
cause of disease is liable. But it is much

~~✓ The influence of certain customs
previosly to & after the birth
of a child.~~

It is exceptionable that that which has
been substituted for it - viz Excitability,
for diseases I shall say hereafter of some
times come on without its intervention,
or even the existence of ~~any~~ ^{any} predisposing
remote ~~as I shall say hereafter~~ causes. —

In considering the proximate cause
of disease, I shall in former years I have
as well as in my last publications I
have endeavoured to avoid giving offence

14

demonstrate their seats & their causes.
nor shall I ever mention the remedies
which are proper to remove diseases
except when I am ~~bound~~ ^{for the} to do it ~~for some purpose.~~
~~Biogelline line~~ In treating upon the
subject of Pathol. I shall follow the order of the
Systema. The following is the order I have
adopted for ~~my~~ lectures on Pathology.

~~1 Remote causes.~~ These will include
the ~~for~~ influence of the following circumstances
on our bodies. ~~1~~ ¹ ~~Testament of the body in injury~~ -

~~2~~ ³ Aliments - Food & drink and
drinks especially in Children.

~~4~~ ⁴ ~~Environment~~

~~5~~ ⁵ Dres. - motion & rest - flaps &
twisting in cuffs.

~~6~~ ⁶ Foreign matters introduced
into the system. These are
(a) Contagions.

(b) Poisons. -

by using as few new terms as possible; hence I have adopted ^{some of} the terms of Dr Brown. The use of those terms has ^{with} different ideas annexed to them ^{those of Dr Brown} has I fear produced some Obscurity in my account of the proximate ^{cause} of Disease. It has moreover exposed me ~~to~~ ^{unjustly} to feel to be ^{the} ~~a~~ ^{reputable} epithet of being a Brownian by superficial readers. To avoid both of these ~~in~~ costs, I shall endeavour to convey the same ideas formerly taught upon this subject by the use of ^{several now} terms which I shall hope will render my opinions more intelligible, and rescue me from the imputation of being a Brownian that I have mentioned. —

10 to p: 200!
prop: I.

15

1. Worms - pins &c

2. Abnormal substances taken into the alimentary canal - lungs &c

3. Abnormal substances applied to external surface of the body

4. The sense of motion & rest, sleep & waking.

5. Qualities of the mind & the general appetite. connected with which are

6. Different states of society

7. Different governments

8. Different religions. -

9. Different employments.

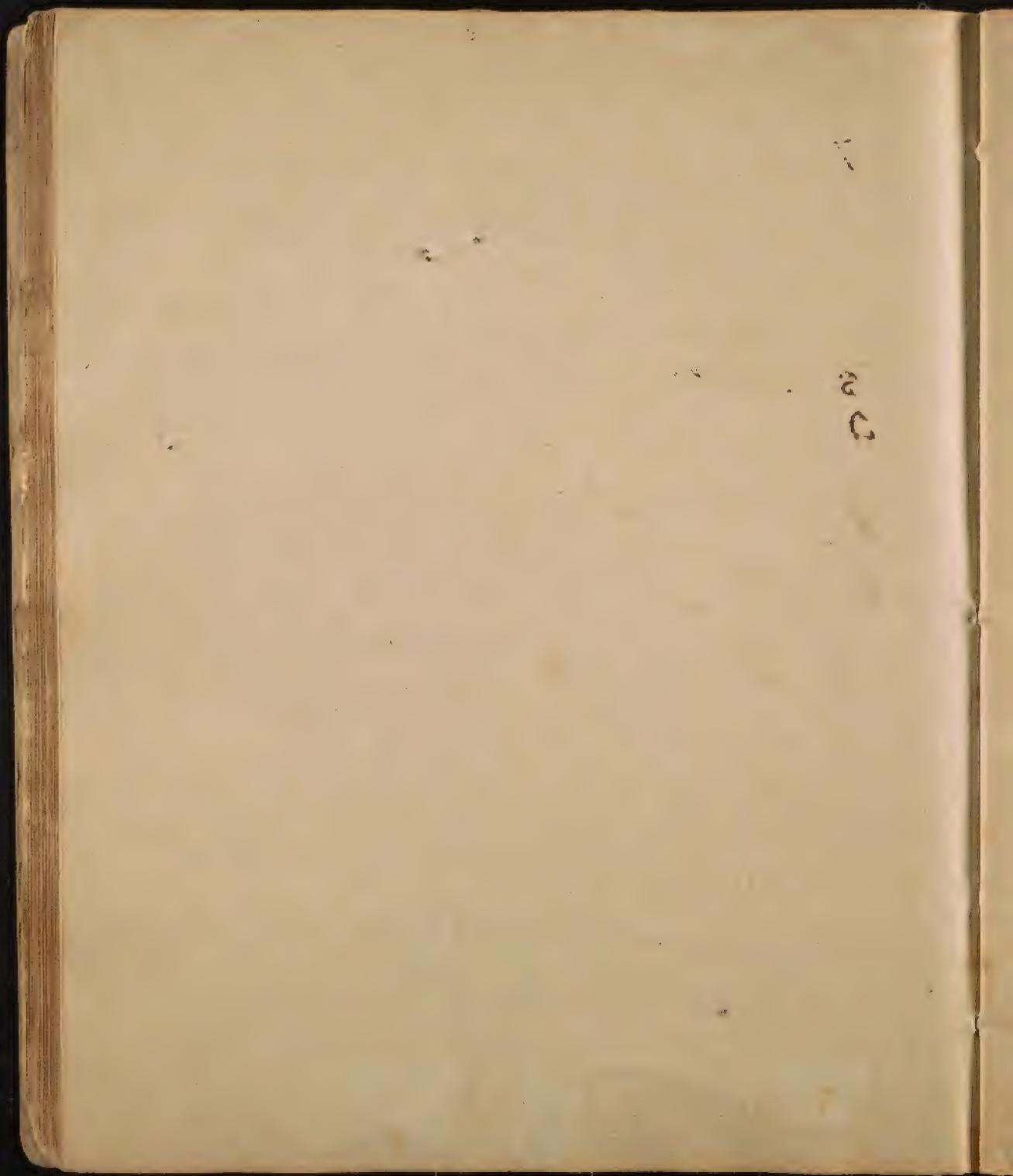
10. Different amusements.

11. Public customs - as Tobacco &c

12. Different conditions in life as to matrimony & widowhood.

13. Unhealthy preceptors.

14. An injurious confidence in



Gravels & in the operations of Nature.

17. The impudent use of certain remedies without or contrary to the advice of a physician, - as Opium - Bitters - nitre

18. Sympathy

19. Time - which always brings with ^{superior} it pain & disease. It was the only power the Patriarch of Persia owned in his last illness. -

IT The predisposing causes of disease natural or artificial - the first are, 1. Different ages as

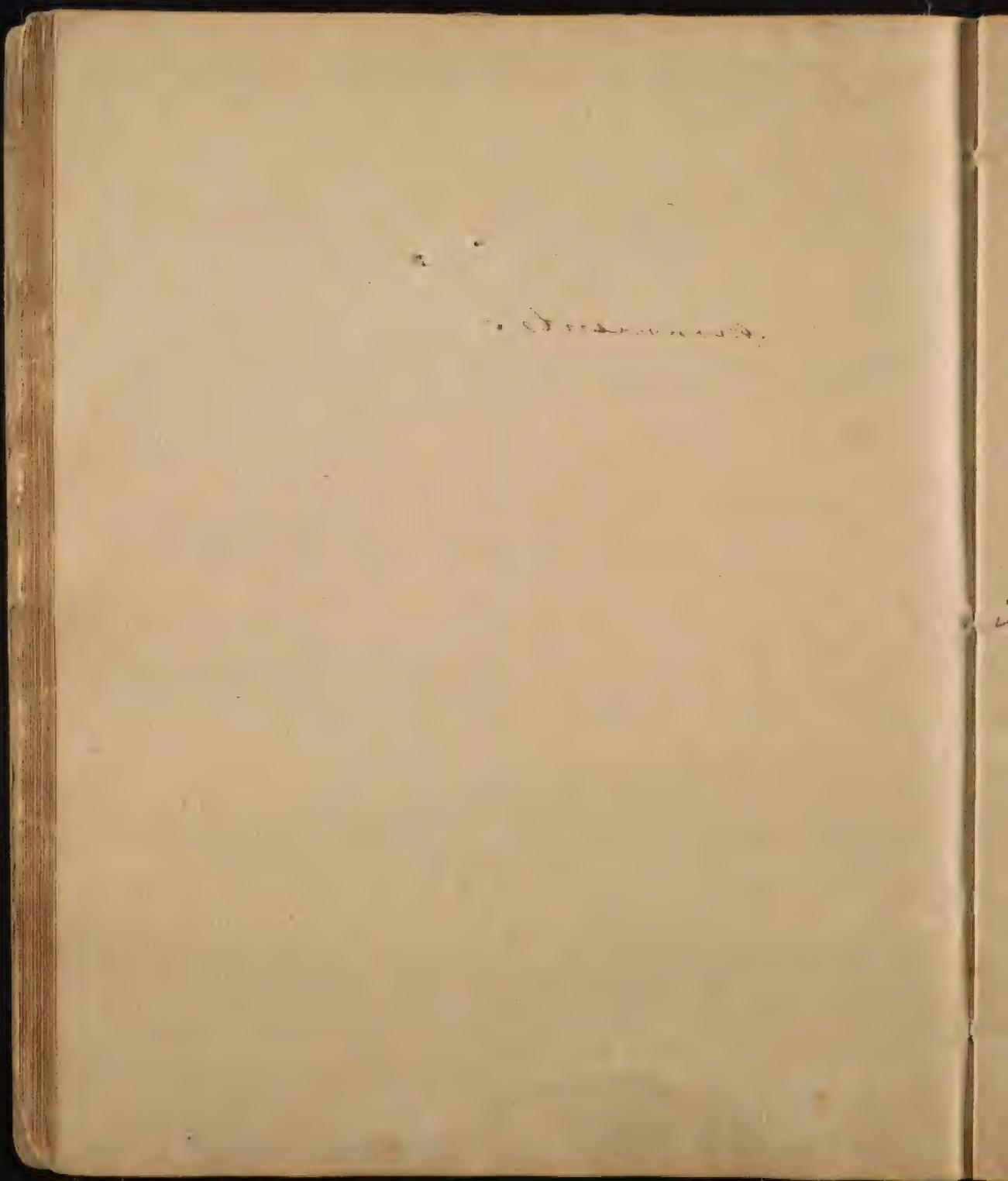
as Pregnancy.

2. Childhood

3. Puberty.

4. Adolescence.

5. The period in which the arterial plethora yields to the venous supposed to be about 35 years of life.



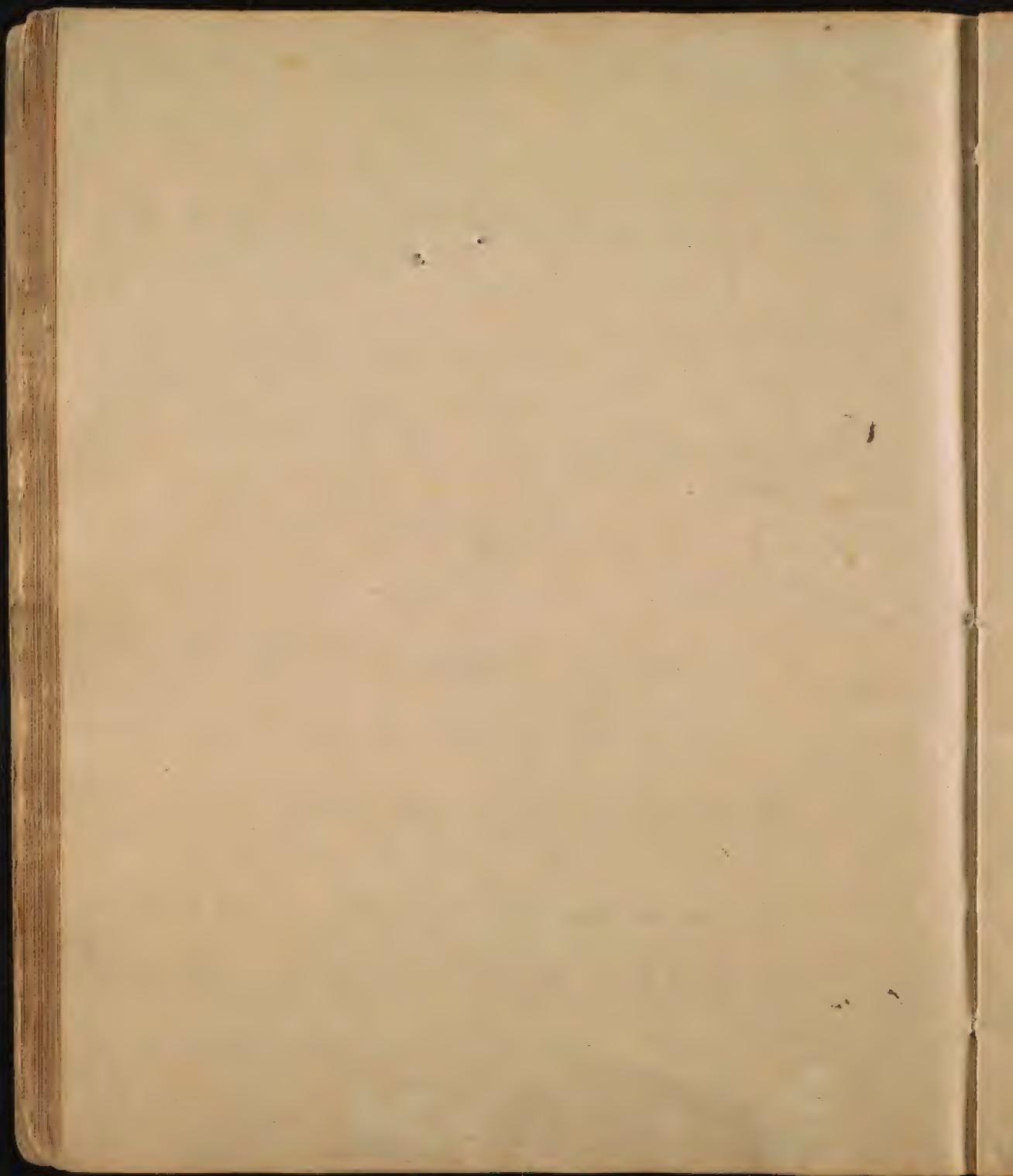
(f) the period of the ¹⁷ cessation of the
menstrues. -

(g) Old age

(h) The different conditions of the system
in single and married life
temperaments.

(i) Deformity in size - or configuration
of any part of the body, ^{of the body,}
~~or~~ ^{or} causing of weakness of a part or of the whole, ^{or}
The predisposing causes which are artifi-
cial are all such of the remote causes
as have been produced ^{by} ~~which~~ have been mentioned. It has been
happily called by Dr Brown - the range
between health & the proximate cause
of the disease or ^{the} disease itself. -

It ~~will~~ be the exciting causes of
diseases are - what ever acts upon ^{the}
predisposition so as to ~~cause~~ ^{cause} producing
disorder. All the remote causes may



becomes exciting causes under peculiar circumstances so as to act upon each other. E.g.: Fear may act upon the debility produced by intemperance so as to induce a fit of the gout. —

IV. The proximate causes of disease are 1 general or ~~affecting~~ these affect the whole ^{body} ~~system~~ (a) thro' the medium of the Sanguiferous System as in fevers.

(b) thro' the medium of the nervous system as in ~~convulsions~~ ^{all the diseases} of the nerves from the highest convulsive disorders as Tetanus down to Asphyxia. —

(c) Thro' the medium of the Alimentary canal as Dysentery - Colic &c.

(d) Thro' the medium of the lymphatic System as Tubercle & Scrophularia.

appear 1 in Pain.

- ✓ The signs of diseases ~~are taken~~
- 2. ~~from the color of the skin~~ ^{counter-irritants}
- 3. The teeth
- 4. Respiration ^{appetite} & the
- 5. The state of the excretions.
- 6. The pulse

(e) It's the medium ^{of} of the blood, as in Scurvy.

(f) It's the medium of the brain as in all the diseases of the mental faculties.

2 They are partial or local - These affect (a) the skin. - (b) the lungs & trachea & the heart & arteries. (c) The nerves. & the brain, as the seat of a wakefulness or sleep. (d) The stomach & alimentary canal. (e) The lacteal vessels. - (f) The glands. (g) The organs of generation. (h) the Uterus. (i) every part of the body - in Wounds & tumors.

3 Old age

4 Death. — V.

try you are not to suppose that this link
chain of causes occurs in every disease,
or in the order I have mentioned them.
There may be remote & proximate exciting
causes ^{or rather remote & incidental predisposing}
& predisposing, as in the small pox. The
predisposing too often occurs without a
remote cause - as the hemorrhage from
the nose without ⁱⁿ ~~any~~ ^{intemperance or exercise}
kind. - Where ~~there~~ a remote cause
acts on predisposition it should be consi-
dered as an exciting cause] Then
the predisposition may be a proximate
cause e.g. ~~weakness from~~ too much exercise
or rest, is a disease. -

This syllabus is a yet very imperfect.
 I hope to give it to the public in a more
 correct state with a short text book of
 the lectures on Physiology next year.

In ~~the~~ enumerating ~~those~~ diseases I
 shall often be obliged to blend the remote
 and exciting causes - & sometimes ^{even}
 predisposing & proximate causes together.
 & I shall often be obliged to refer ^{to} the
 same facts under the different heads
 of the causes. But this will serve only
 to connect our system more closely
 together, & to impress it more strongly
 on your mind.

Before I proceed to
 f. I shall begin by considering our
 own first head, - I shall but briefly

remote - predisposing
& The ^{debility} and the proximate
causes are here blended together in a
close & quick succession. The ^{debility} ~~predisposition~~
is evident from the languor - coldness
& ~~lethargy~~ ^{danger} which ~~precede~~ ^{introduce} these diseases.

deliver a few general ~~21~~ propositions. ^{all} ~~most~~

~~Excludes Diseases of the skin & all~~

~~These diseases which are produced without~~

~~The disseminating the power of the body~~

~~by predisposition depend upon debility~~

~~It is~~ ^{here}

on predisposing debility. I except only

those which arise ~~from contagion~~ - wounds - and

some local diseases. ~~On the certainty~~

~~of violent contagious diseases is established~~

~~till they have first induced debility. ✓~~

~~infective debility~~ ^{do not act}

~~say by Dr Brown to be~~ This debility is of

two kinds. Viz direct. & indirect. To

understand the meaning of these terms it

will be necessary to fix the healthy point

of excitement in the system at a certain

degree upon an imaginary scale. I shall

choose for this purpose the no 50: - ~~now~~

~~when~~ ^{then} ~~the~~ ^{the} system is stationary

from an exact balance between

stimuli and its excitability. When

~~The symptoms of both, are
so exactly alike, that they can
be distinguished only from
their causes. —~~

there is an abstraction of stimuli the
 System falls below 50 - ~~in which case~~
~~direct debility is induced when there~~
~~is ^{great} excess in the force or number of~~
~~stimuli indirect debility is induced. These~~
~~two species of debility ^{have been consid}~~
~~as ^{by Dr Brown} in some cases~~
~~diseases, but ^{in general} they only~~
~~predispose to diseases: The predisposition~~
~~may be confined to 10: above below & 10:~~
~~Above the points of healthy excitement,~~
~~when it ^{descends} ~~extends~~ thin below 40: or~~
~~extends above 60: it may be considered~~
~~very near to ^{for} an actual disease, ~~it is~~ the~~
~~System ^{rapid} remains long in this~~
~~state of direct & indirect debility. - for~~
~~It is a condition of the system that~~

~~1. Sudden diminution
2. The loss of excitement whether by
causes which produce direct or indirect
debility is succeeded by what is called an
excitation of what is called Excitability - that
is a disposition to be acted upon ^{by}
stimuli ~~which~~ with greater natural force,
by stimuli ^{or irritants} which produce only natural
motion in the healthy state. The more
sudden the diminution of the excitement,
the greater the excitability which is
produced. There appears to a transmutation
of excitement into excitability in the
production of diseases, & the cure of them
in many cases consists in nothing, but
the conversion of this excitability back
~~back~~ ^{up} by means of medicine into ex-
citement. - where debility whether direct
or indirect has continued a great while~~

as I shall
seldom fail to invite a disease of another
kind to be ~~an~~ ^{prove} ~~an~~ ^{as} mentioned hereafter. &

~~But to return~~ consider the ~~the~~ existence of this
indisposing debility, ~~is~~ ^{& its consequent exibilitiy,} nearly all
general diseases as the corner stone of
my system of physic. I invite you
therefore gentle to examine it thoroughly.

If you consider - ~~in~~ the whole
fabric I have endeav'd to build upon it,
most ^I ~~call upon~~ to tremble with it. — ~~so often~~

It was early to attend to the manner in
which ^{most} of the remote causes to be described
presently act on the system - and I think
you will perceive that it is only in
one way - viz: by inducing direct or
indirect debility. —

H. 90 to P. 23 I shall begin by mentioning

it is followed by a diminution of excitability as well as excitement, - hence the necessity of strong stimulating powers to call a sufficient ~~number~~ charge of them to act upon the remains of the excitability. There appear to be certain latent resources for this excitability in the system - and so abundant are these resources that I believe few men die without carrying with them to their graves such a portion of it as would have lasted them for many years.

- Excitability & excitement are different proportions to each other in different stages of life. But more of this hereafter. - The ~~destruction~~^{total} destruction of excitement & excitability is the proximate cause of death, or in other words, ~~they~~^{Death} ~~destroy~~^{dimin} animal matter to a level with earth and other dead ~~of its power~~ ~~actions~~ ^{Observations} to emit those motions we call life. no more happens then to the

I shall begin by mentioning
the influence of certain corrupt practices
and customs which obtain in the treatment
of infants, and these we shall find are
of a debilitating nature. — and here
we shall find the words of the poet were
true. — The child, the moment it unites its
breath
with the breathing principle of death.
The fell disease, that must abide at length,
Grows with our growth, strengthens in
our strength! — Even before it comes
into the world it is predisposed to disease
from the debility it contracts from the
indolent luxury — ill temper — amuse-
ments — hard labor — and penury of
its mother, for few women pass thro'
the period of pregnancy without being
the subject of one or more of the

+ I am led to support the opinion I
have taught of the cause of animal life,
as life by my religious principles, than
I am by my principles in medicine.
Life independent of stimulus, creates
forces ~~has~~ to admit a ~~sub~~ existent prin-
ciple, which ~~has~~ ^{has} ~~is~~ ^{the cause of} the cause.

evils that I have mentioned. But
 X, Children are often exposed & predisposed
 by debility to diseases from injuries received in pas-
 -turbation from ignorant or negligent
 midwives. — .

2 The custom of washing the tender
 flesh of new born infants with Ardent
 Spirits - Wine - or even Soap & water en-
 -cates a predisposition to many diseases. They
 all stimulate, & of course produce sub-
 -sequent debility.

3 The first diet of an infant is generally
of a debilitating nature. It is either ^{Quantity} excessive in ^{Quantity} ~~size~~,
 or of an unwholesome quality from the
 mixture of Spices - Wine - Oil or oily
 substances with it. By stimulating it
 induces ^{indirect} debility.

4. The first dress of Children as tight

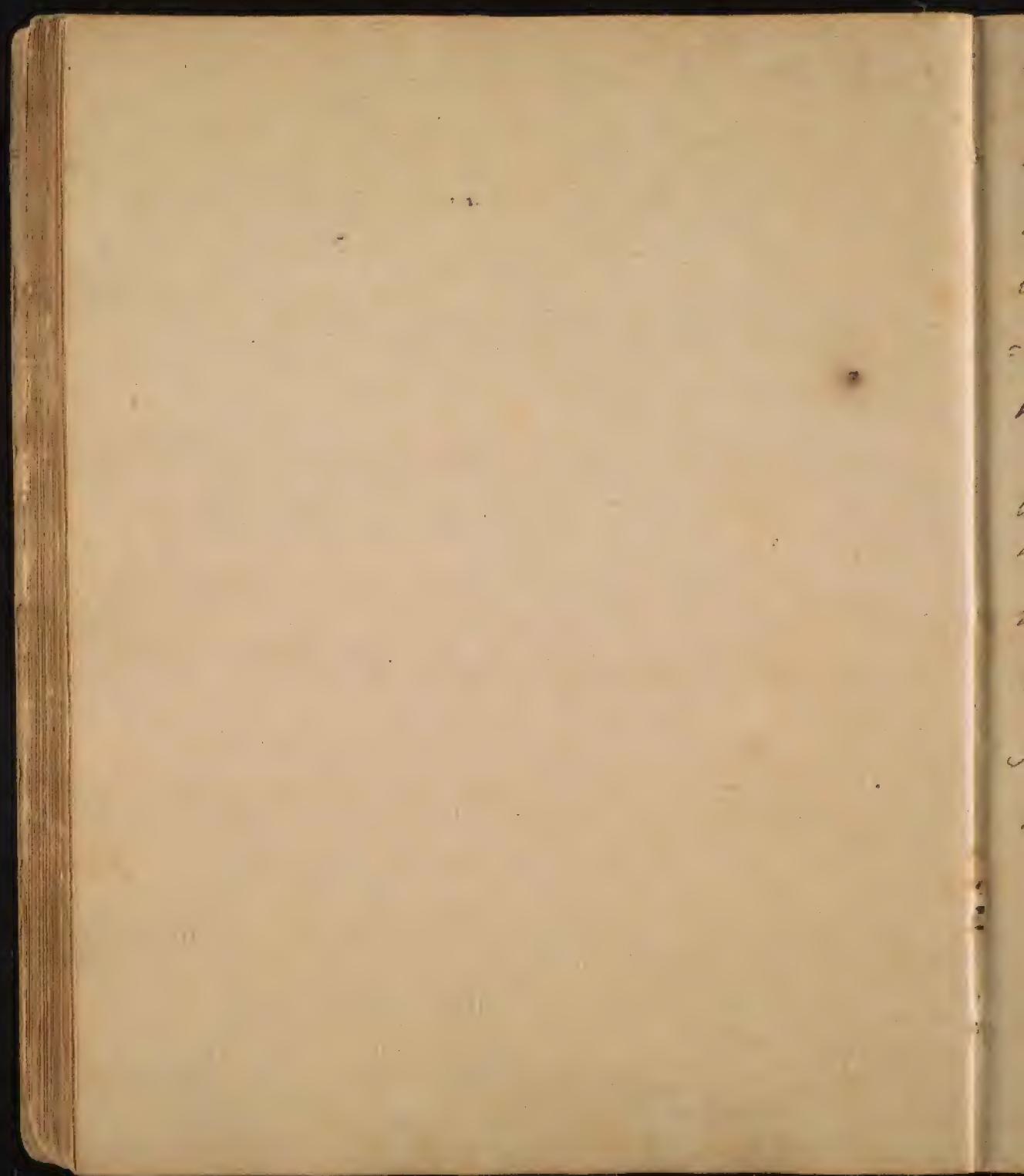
55

Supreme creator out of the question. It establishes the old Epicurean doctrine of the eternity of the world, for if motion or life can exist independant of infinite causes of stimulus, I see no more difficulty in admitting the eternal existence of the world from a power inherent in & necessary to matter. But the doctrine I have delivered places the Deity upon the throne of the universe. It makes him what the poet calls him "the father of life", or what the scriptures more emphatically describe him to be "the only living & true God". It moreover places man in the humble situation ^{over the} of a dependent creature - & indebted to ~~over all~~ the elements for his existence every moment. - ^{and justifies the} ~~the~~ ^{comparison} of his life being ^{to} a vapor - or the grass of the field - and it shews him to be what Shakspear - "a mere thing, a poor - bare - forked Animal".

caps - evading Cloaths - stays - be all
 tend to weaken the body & ^{thus} predispose to
 disease in every subsequent period of
 life.

5 The Use of Ardent Spirits to allay the
 complaints of Children is a source of
 great debility, & subsequent disease. 91

6 The influence ⁱⁿ the milk of mothers
 negligent in their diet, or wholly devot-
 ed to pleasure is a fruitful source of
 debility & disease. I once knew death from
 convulsions in a Child that had sucked
 a nurse ^{of} had drunk ^{1/2} of Rum, &
 I have seen the Colic many times
 from bad Aliment taken in too
 large ^{or} quantity by Nurses or Mo-
 thers. —



7 The premature application of the mind
to study in children & in particular to
difficult - Absurd - and unprofitable
branches of learning, as also the confine-
ment of children in close ~~school~~^{schoolrooms}
and the tyranny of Schoolmasters all
become a source of bodily & mental
debility
disease. I have been called to many
hundred children who have been sent
home sick from a crowded school, &
I think I have seen ~~too~~^{a morbid irritability} induced in
the minds of children by ~~seth~~^{being} ~~being~~
subjects of a despotic Schoolmaster.

8 The amusements of children expose
the body to many debilitating causes,
such as jumping - falls - &c.
most of the time they are moreover

~~V 2 Debility is acquired in every subsequent stage of life by all thermal remote and exciting causes of disease causes which lessen the natural excitement of System by the abstraction of the strength of the body, or by or action.~~

~~that is abstracting a portion of those natural stimuli which support life, or by reducing the excitant, and dissipating a portion of the excitability of the System by the gradual or chronic application of an unusual number of Stimuli - or suffocating suspending the it by the sudden application of Stimuli thereby producing what I ^{a sudden} ~~shall call~~ disruption of the System.~~

I shall enumerate the different causes which induce ^{all} these kinds of Debility hereafter. ^{Debility whether} natural or acquired is - to 10 : 15. 0

28

exposed to
injuring falls from the arms of their
mothers - to being pinched - humped - or
shaken by their nurses, or mothers. I
know of the cases of Hydrocephalus that
I have known, have arisen from falls,
or contusions on the head. I ~~have~~ have
known one ^{case} from a stroke given to a
child with a brush by a ~~passionate~~ ^{This native and}
mother - which terminated in death,
~~early acquired debility: 9 to 15~~ ①
~~the~~ now to inquire into ^{Climbacy}
~~process~~ ^{of the Air} in producing diseases. It acts, by
its sensible qualities. These are heat - cold
humidity and density. Each of these is varied
by the suddenness of transition of one to
the other, and by local situations - and
certain seasons and months. 2^{ly} The
Air acts ~~process~~ induces diseases from

W^r Dr. to use the words of lately coined by
Dr Miller of New York - "Koino-miasmatic"
& "Idio-miasmatic" exhalations. — The
former signify - exhalations from exposed
or public places - the - latter from private
or personal sources.

✓ In all the air the properties of which
are unknown, but appear in its effects
upon the human body. and many other
as yet unknown matters.

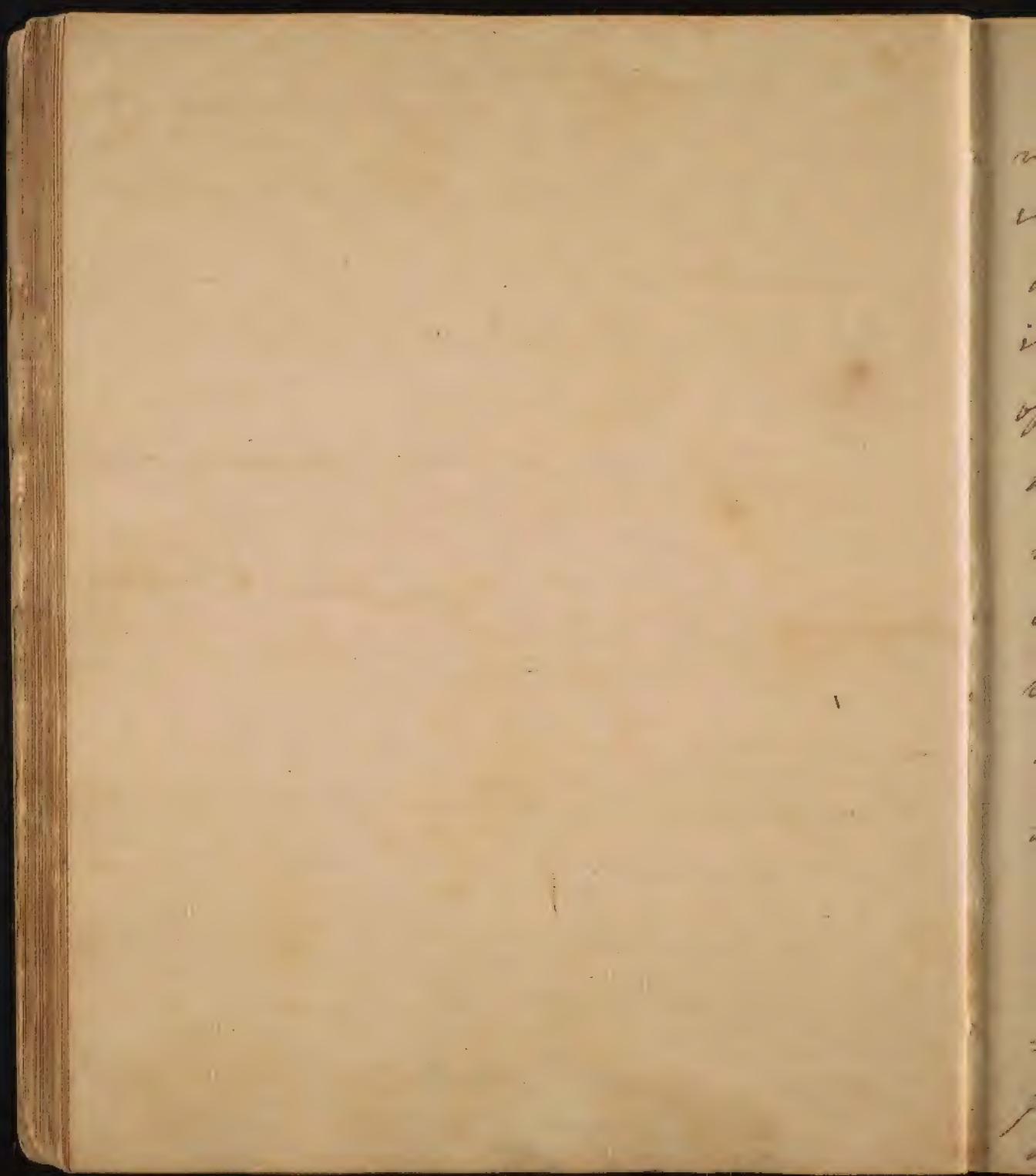
This is a most important Subject,
and should command your closest Attention.
From the sensible or insensible qualities
of the air, are derived nearly all febrile diseases,
and there is scarcely any other disease that is
not more or less influenced by them.

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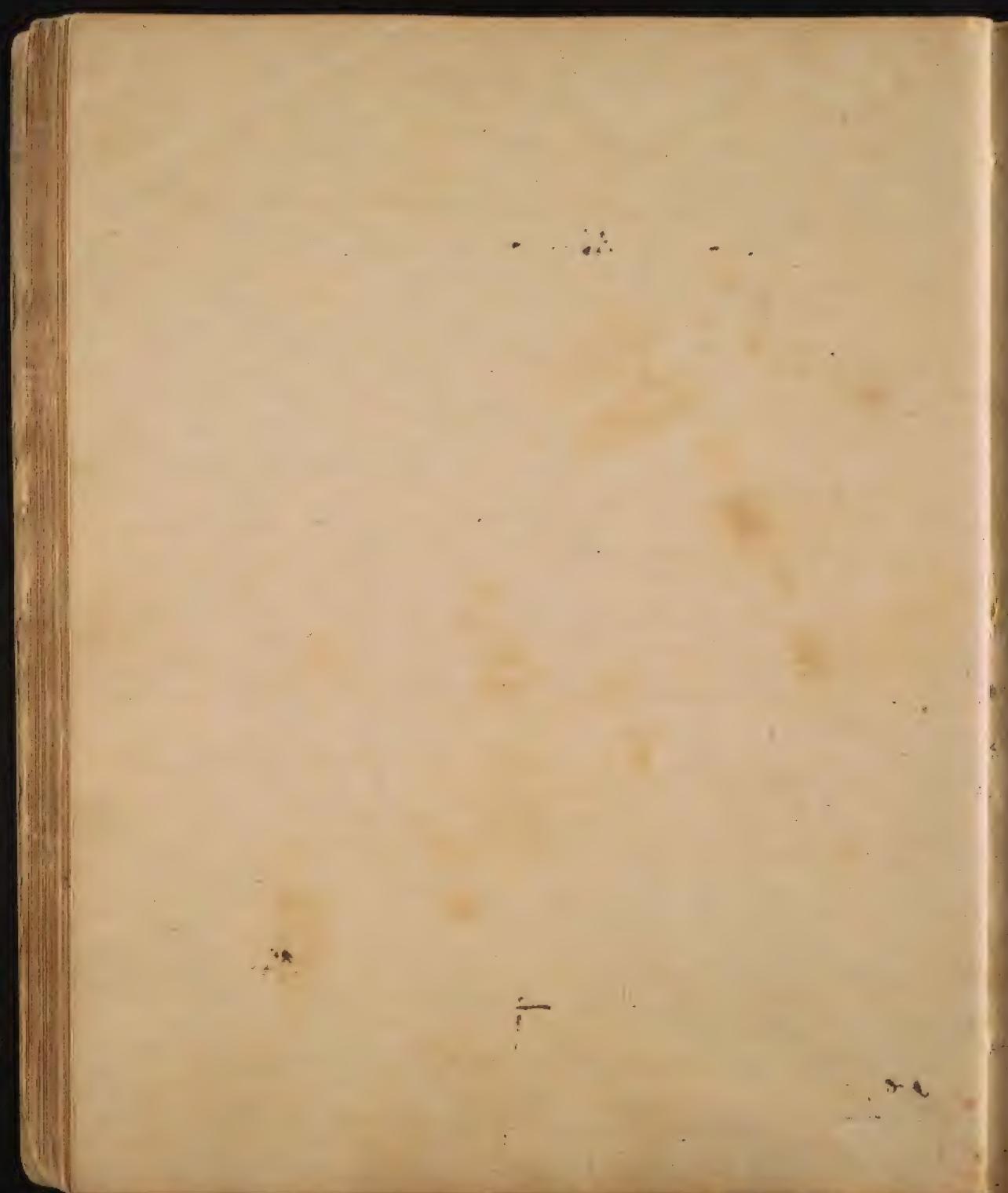
certain impregnations ^{ch} are mixed w:
it - these are 1 miasma - 2 for the air
which has been destroyed by respiration.

3. Hygrocos. 3. Sam Brown - or Garamattan
winds. 4. The smoke of certain burnt
substances. 5. The effluvia of manufacturers.
6. the respiration of plants. 6. & one more
not to be lost in naming of the above
leads - mentioned by Bruce viz: Daniel. ~~dearly~~
~~dearly~~ influence of the

1. Of the insensible qualities of the air. -
soil heat enter the standing of human body
is com formed so as to exist in various degrees
of temperature of the air, yet there are
certain degrees of it which are most fa-
vorable to health. These degrees are
different in different ages. From 62°
to 75° in middle life are most salutary.



Beyond 45 higher degrees of heat become
unbearable and agreeable. — That is an
universal stimulant ~~but~~ to all animals,
and perhaps no animal exists without
it. Different degrees of it act on $\frac{1}{2}$ powers
of life in different ~~per~~ animals — hence
the freezing point or for what we know
many degrees below it, may be to some
animals what 75° are to $\frac{1}{2}$ human
body, — for heat & cold are both
relative terms — and the extremes of
both are as as yet unknown, as well
as the full effects of both on animal
life. — There is however in every con-
stitution a certain degree of excitement
produced by heat which constitutes its
healthy point. This degree is nearly



the same in persons of the same age,
and in the same degree.
- who now if however the heat exceeds
this degree it always induces ~~indirect~~
³¹ from action.

~~excitement is raised not only by age, but
by the heat temperature of the weather
which has produced it. I once knew
77 [on the 17th of March 1791] produced
universal languor in the citizens of
Philadelphia from indirect debility. The same
degree of heat would have been gently
& gratefully stimulating had they de-
-rived in the months of July or August]~~

~~This~~ ^{has} the indirect debility induced by
heat ~~themselves~~ itself in the following
ways. 1 In the arterial system it produces
languor - excitability, & a disposition

✓ 2 Heat acts when combined with the
solar rays in a peculiar manner on
the brain - producing it is called Insu-
lation. This is sometimes suddenly
fatal - but ~~where the insulating power~~
according to Dr. G. D. Storke's Air: of the
is overcome it only in the ~~case of~~ ~~case~~
most noxious diseases in India - ~~is~~ a Synoche
fever - 2 a Phenomenon - 3 Insolation -
and 4th in its highest degree - cold treats
convulsions & death. It is unshakable this disease
is unknown in Africa from the uniform ^{of} of its heat, & in-
Dr. Robert Wilson relates many curious &
facts of the effects of the warm air 116: in Egypt
upon the British Officers & Soldiers. It produced
faintness - difficulty of grasping - spitting of blood, & falling down - also
blindness, or false vision such as the sight of
camels - horses, & all kinds of animals
moving before their eyes. It was always
increased by standing still, & lessened by
motion. Eating increased it. 0

to be acted upon by all the causes which induce fever. At 80° it is most disposed to pro-
-due malignant when long protracted. Discov'd by D'Latell.

3. Upon the nervous system it produces excitability, & a disposition to be acted on by all the causes which produce convulsion & syncope - hence the greater frequency of ^{tertian} ~~Hysteria~~ in warmer climates, & warmer weather than in cold, - hence also the frequency of fainting in the same countries & seasons. Heat beyond the healthy point of excitement dulls the sensation of touch ^{It also affects} and vision - hence we read with difficulty in hot weather. It affects the brain with ^{giddiness} sleepiness in the day time, and when less stimulating so as not to produce ^{giddiness} ~~indolent~~ ^{giddiness} ~~depression~~ - it produces wakefulness in the night.

4. Heat acts upon the muscular fibres

v goes with also an indisposition to make voluntary motion. - hence it is said exists a necessity for domestic slavery in all hot countries. -

It heat acts upon the lymphatic system - exposing it to above more than usual - hence weakness in going to a warm climate.

v This sweat has a saline taste.

It is a well known officer who had travelled a great deal ^{in warm countries} informed me y: had never seen any person discharge sweat from the back of the hand till he came to America. It is remarkable this sweat removes the marks of the smallpox - many years afterwards.

+ Heat produces eruptions or small boils on the skin. This I have often observed in hot Summers especially in Children. Bovis takes notice of

first activity - thin 33 languor & weakness
and produces in them weakness, and an
involuntary ^{insolent} ~~particular~~ disposition to all motion ^{of ease & quiet}
it is said of domestic slavery in all hot countries

¶ Heat acts on the Stomach and alimentary canal - producing in the former
more especially for fresh animal food,
a want of appetite, - and in the latter
a disposition to Colica - & Dysentery.

¶ Heat acts on the ~~Bile~~ - ^{skin} producing in
a certain degree profuse discharges by
sweat, & in a higher degree ^{it produces} ~~last~~ a universal
dryness. This sometimes occurs in
reapers, & unless relieved is always
followed by sickness & death. This dryness
of the skin is often lost on by sleeping
in the open air in the shade in the
East Indies, and generally occurs in
the Hepaticos of ^{the} country. Heat
further - discharges the white from

same effect from heat in the East Indies. The
opposite, & precisely heat of hot climate
- ates are produced by it, but they
sometimes appear as I shall say
hereafter are another cause. ^{that gives} ~~they~~
the fluids in pens - a centrifugal determination - hence
baths & other dwellings in the plague - & not in cold climates,
& this brown or dark color is produced on
the skin only by the heat of the sun. Hence
we observe Smiths & Cooks to be as fair
as other people. The fairer the skin, the
less apt it is to acquire a dark color
from the ^{rays} ~~bath~~ of the sun. The color
of the Blacks has been ascribed to the rays
of the sun. It is certainly one of its causes.
But several other causes concur to produce
it, as diet - disease & state of society. no no
difference is perceptible between ^{the children of} white & black
parents till 8 days after birth except in the
scrotum and glans penis which at birth
are of a dark color.

the color of the skin, and disperses it to
a brownish dark color. ³⁴ ~~up to 14. 10. 39. or~~
~~bring it in under this~~

Heat invigorates the ^{liver} venereal appetite. Hence the early marriages ^{of females} and the late first marriages among males ⁱⁿ which occurs in warm climates. Count Struensee who lost his life for ~~attempting~~ ^{striking} the present king of Denmark says in his confessions that he had formed a design to settle in the East Indies ^{on} purpose ^{of} that he might enjoy in a higher degree this animal gratification. It is a curious fact that this appetite finds flourish under the ~~reign~~ ^{reign} of every part of the system I shall hereafter mention. Some facts that show ^{if} it exists with peculiar force in ^{the} direct as well as in

IV The effects of heat on the Ven Appetite,
in middle latitudes in
appears from the greater number of births
which occur in the winter months than
in any other season of the year. Dr Boerhaave
supposes from this fact, that longevity is
connected wth birth in cold weather, - but
if more persons have lived to be old, who
were born in winter than in other seasons,
it is owing to the greater abⁿ number of
births in ^{the} season ⁱⁿ any other. In spite
to the influence of the visual sun in pro-
- geting his species, man sinks for a while
to a level with the ^{lowest part of the animal} ~~heat~~ creation. Fish
feels it the most of any animals

I heat by increasing perspiration ^{shortens}
the duration of the tide ^{and} the discharge of the menses in women.

10 Dr Pinckard remarks a singular
fact of the effects of heat in the West
Indies upon the body with respect to

the indirect state of debility of the system.
 ✓ increases the function & excretion of bile
 Heat acts on the blood ~~disengaging it to~~
~~I say disengaging to putrefaction only, for~~
~~adusta putrefaction. This putrefaction~~
~~is prevented by the bile according to Dr~~
~~Waring - hence it is wanted more~~
~~plantibus in hot weather than at~~
~~I have putrefaction, according to Dr. Bent's~~
~~any other time. Strange, that the~~
~~experiments does not take place in the blood.~~
~~Product of a putrefactive process should~~
~~check the further progress of putrefac-
 tion. But this is nothing new in the
 works of Nature. ^{Nitre} witness the offspring
 of the putrefaction of vegetable & animal
 matters. witness both of them from
 putrefaction of the green matters in
 appear on stagnating waters, are
 vegetable productions which yield a
 disengaged air which ^{Purifies} ~~salado~~~~

ships. He says no drowning, nevertheless
it is the morning - hence he says "to
wake & to rise - are the same thing" in
the West India Islands. -

the air which exhalts from ^{the} putrefying
water. — What makes Dr M. Lurj's
theory more probable is, that the bitterness
of the bile — now bitterness we see pro-
duced by putrefaction in the rotten
parts of an apple, and of many
other fruits. — ^{This has often been remarked} Sometimes this bile is
by Butchers in the cattle they kill in the summer months
expulsive in quantity — or explosive in its
excretion, in both ^{the} cases & sometimes
it finds its way into the stomach — in
all which cases it produces viscous,
hence the frequency of complaints of
a redundancy of bile in warm cli-
-mates. But it produces diseases more
frequently from being vitiated by
a mixture with marshy excrements —
hence the frequency of bilious fevers

14th Heat acts upon the eye light - hence
the frequency of Ophthalmia - Catarrh.

It gulta secca in warm countries.
Ophthalmias were very common in
the warm dry summer and autumn
of 1793. They are less prevalent in Egypt.

15th It acts is less unfriendly to old than
young people - hence the practice of
the old Romans & modern Portuguese,
of retiring to a warm climate.
But when so intense as to produce
great dyspepsia.
indirect debility, it is often suddenly
fatal. - It is a source of many dis-
eases in children especially under 2 years
old. hence 1/3 of all who are born die under
the ^{period} th ~~influence of~~ ^{time of life.} - ~~the influence of~~

Under the head of the effects of heat upon
the body, I shall include the influence of
what are called the syroco winds. They blow
are common in Aleppo and in some
parts of Italy. They derive their heat from
baping over immense beds of sand heated
by the sun. They are extremely debilitating
and dispose to many diseases. Brydone de-
scribes it as having occurred at Naples while
he was there, and speaks with great pity &
contempt of an Italian Dragoon whom
he met with a morning walk supporting
himself under the pressure of this air by
means of a smelting bottle. —

15 and lastly the influence of = p 38-

in sometimes respond to their scholars
works. ~~10th~~

Heat, by producing instant debility acts
upon all the faculties of the mind, producing
weakness in the ^{memory} understanding - and the
worst faculties - perhaps the ^{imagin} is
not impaired by heat - It ^{is probably} ~~as~~ ^{an anatomist}
irrigated by it. ~~Baffos~~ says that
hot climates weaken genius, & check
invention, but that they encrease the
powers of imitation: This seems to de-
pend on a comest state of the faculty
of taste. ~~He says~~ By the longer it induces on
the ~~body~~ mind - it disposes to the use of Opium -
~~He says~~ - strong drink & of the Absolutes
Thus far have I spoken of heat
as acting in ordinary cases without
any previous preternatural excitability
Let us next attend to its relative effects
in the system. But Where the system

effected only by the heat of the sun. No other heat produces it. Hence Smith & Cooks are as fair as other people. The fairer the skin, the less disposed it is to acquire a brown color from the rays of the sun.

= heat extends so far as to lessen the density of the solids of the body, hence a European of whom weighed in the opposite scale to a Chinese or a Hindoo is always considerably heavier when his bones of a person who has lived & died in a cold country.

~~Being in like the effects of~~
Winds p. 126 42° 3.

38

has been previously exposed to cold, it acts more uncertainly, and with ~~increased~~
~~greater force~~ ^{varied by} ~~according to~~ the disproportion
between the temperature of the
body and the heat which is applied. If
one knew 77° on the 17 of March
1798 produce universal languor ^{fatigue and stupor} on the
citizens of Philadelphia from indistinctibility.
The same degrees of heat would have
been gently, & gratefully stimulating
had they occurred in the months of July
or August. — Inflammation ^{fever} seldom fails
to follow the sudden action of even moderate
heat when it has been preceded by
cold. Hence the frequency of these
fevers in the Spring, & in open
winters. The old saying that a green

+ This is the case in the nights in Surinam after
a day in which the ~~g~~ ^{Max} stood at 85° - The
humidity of the air was 80

Often induces fever either 1; by
repelling perspiration, or 2 removing
the ^{action of} ~~action~~ some other stimulating
in the yellow fever. The coolness of the
night air after a hot day produced in
the soldiers who marched from Suer to
Cairo, such a numbness ^{in their limbs} that they
were scarcely able to move the mor-
ning afterwards. 3 Destroying the Equi-
-librium of the system, &

Christmias, or a ³⁹ Xmas in which the ground is covered ⁱⁿ verdure, makes a fat Church yard in the Spring is certain-
ly well founded. I have several times
observed it in this city. ✓

- It is only when it is varied alternately with cold or moisture that it is most unhealthy. The most healthy summer I have known, ^{has} been the warmest.

-
- The summer of
- the year 1766 in Rome was
- placed upon record as an uncommonly
- warm season. It yet says the person
- who describes the heat of that summer,
- "our town was uncommonly healthy,
- & all our hospitals were nearly empty".

thus inducing a fever without the co-operation of an irritant, or exciting cause. ~~Factitious熱~~

~~It has been remarked that the body suffers much less in passing from extreme heat to cold, than from~~

But the autumns which follow those hot summers are ^{often} generally marked with bilious & ~~soft~~ diseases. - It is thus we see diseases are generated in one season, & produced in another ~~#~~

Again. ~~It is remarkable further that~~
 Heat ^{when} long applied to the body, produces the same insensibility to its Cold, that it does to itself. The West Indians ~~are~~ bear the cold of our climate for a year or two better than our natives. It is commonly said that they require a year or two to be cooled after having been exposed for a number of years

5 How shall we reconcile this fact with
the ~~sudden~~ painful sensation of cold
felt by persons ~~des~~ ^{experiencing} ~~descendings~~ from a heat of
 112° to 80° formerly mentioned? I know
in this case the transition is always
sudden ~~whence~~ ^{by} the heat, & the
transition to the ~~last~~ ^{less} or rather
below it, is so sudden as to produce
the sensation of cold. In the case of the
West Indians the insensibility to heat is
blunted, by the long application ^{under a} of a vertical
fire, and the cold of our climate is ap-
plied so gradually to their bodies, as not
to destroy this insensibility for two or three
years.

Upon my giving this solution of the
above phenomena to Baron Humboldt
in his late visit to this city, he com-
municated to me the following fact. 300
men work every day from morning till

to the intense heat of a vertical
sun ⁴⁷ fire

In producing all these effects on
the body, the heat often rises 10° &
even 20° degrees above the ordinary
heat of the body, & yet life is not
extinguished by it. The reason of this
I gave when I treated on animal
heat.

If such be the numerous and
mortid effects of heat on the animal
body, it is natural to inquire ~~why~~
~~the Author of nature~~
~~the Creator of the world~~ placed man
in immediacy after his creation
in a warm climate, and why

luring
light in a mine and reaches 1900 feet below
the surface of the earth, in which the temperature
of the air is at all times from 100 to 102. They
come out of this mine in the evening, & pass
the night in an atmosphere in which the
heat is between 40 & 50° yet they never take

It was in similar climates that
men have attained to the greatest
degree of longevity.

~~may more they~~
cold, and ~~do~~ enjoy good health. This insen-
sibility to the sudden change in ^{the heat of} the atmosphere
must be ascribed to the intensity
of the heat in the mine ^{from time} destroying all
sensitivity both to itself, & to cold. —

Cold ~~sudden~~ ^{sudden} certainly induces disease
when it acts, ~~upon~~ ^{sudden} bodies exposed to an uniform
heat, but not intense heat. ~~though~~ Its most
effects are so general, that Dr. Morely
considers every person in a West India
Island as constantly exposed & disposed to
disease from cold. Hence the heat at 80
midnights so much in our Climate to yellow fever.

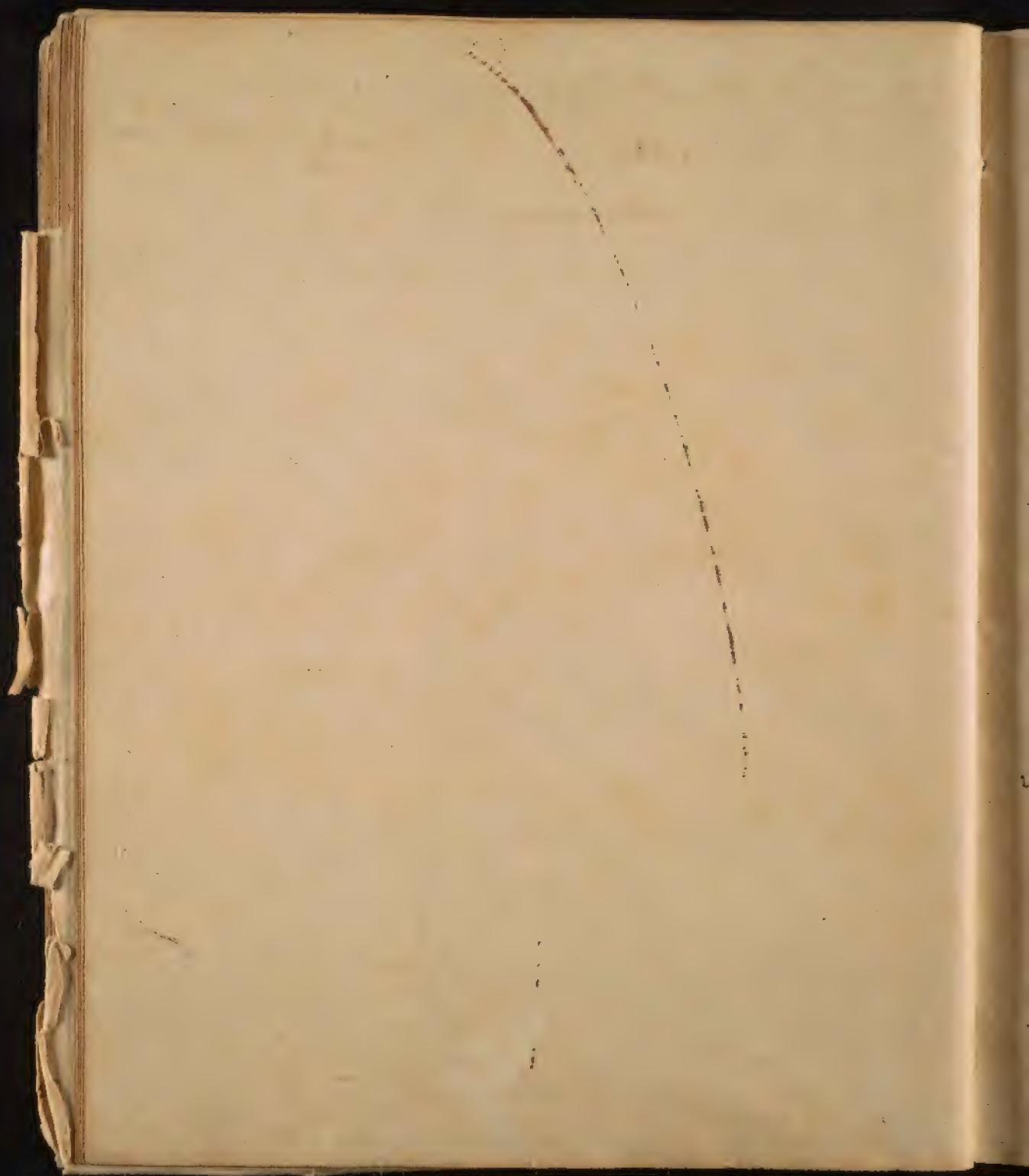
human nature has been more honoured, in hot countries than in any other parts of the world. Let us ^{see} it was ~~universally~~ in the ~~consuming~~ fun of Egypt, that arts and sciences acquired a perfection that has ~~ever~~ astonished all succeeding generations. To account for these facts it will be necessary to observe that where men avail themselves of the aids of experience & of ~~human~~ reason, there is ^{no} climate unhealthy. The natives of Africa enjoy good health, & grow old in the neighbourhood of factories which prove graves to the Europeans who settle among them. The ^{aborigines} ~~origines~~

= It is ~~susceptible~~ ^{susceptible} the body suffers
much less ^{suddenly} in passing from the extremes
of heat to cold, than from the extremes
of cold to heat. —

Cold creates

43

of Hispaniola & Jamaica know nothing
of the Diseases which have since ex-
-tirpated destroyed so many thousand
of the descendants or fellow citizens
of the men who at first extirpated
them. Even those ~~but~~ civilized inhab-
-itants of warm countries who live
agreeably to reason, enjoy good health &
attain to long life. Mr Townsend
tells us that a Spaniard in Madrid
~~as~~ conceals himself in a close and
dark room during the heat of the
day, and thereby avoids all the
diseases of warm weather. His
bed - his drinks - his diet - his ap-
-parel - &c are all accommodated to
his climate - while the Englishman



who visits this country, & neglects
all these precautions, generally pays
for his temerity by submitting to
some of the diseases which have been
mentioned. — I conclude therefore
that most of the diseases of which
have been ascribed to heat may be
resolved into certain errors or irregu-
-lancies in ^{dinahs} diet & dress - exercise - or
passions of the mind. — the effects of

I go on to observe that heat ~~produces~~
upon the body are much varied by ~~being they see~~
~~different effects according to the~~
with dryness or moisture. In the deserts
of Arabia - & Africa travellers often
feel a difficulty of breathing which
is relieved by inhaling a little
moisture from a sponge which

45

they often carry with them for that purpose. The heat of a close stove room produces the same effect, and it is only to be removed by promoting the evaporation of water in the room. It would seem as if a certain portion of moisture in the air was absolutely necessary to its being ~~proper~~ fit for respiration.

Moisture varies the effects of heat upon the body. When the ~~heat of~~ ^{temperature} of the air rises to be equal or nearly equal to that of the body, it refuses to conduct off the poor heat of the body, hence such an accumulation of heat, & perspiration take place as

probably been up & only inflam'd - or could
have appeared in the form of a malignant
Dysentery, that might have forbidden us.

✓ & all writers on East India Diseases
say the same thing.
Dr. Birmingham in his Epidemics
says for that seasons long & uniformly
rainy in ~~you~~ England, were uncommonly
healthy. ~~those~~ In some parts of the world,
^{or rather most} ~~is~~ ^{is called} from the sea,
the moisture, which is ~~drawn~~ from the sea,
produces a peculiar effect upon the temper,
known in England by the name of sea fever.
It is common during in month in Engl:
& in Barcelona in Spain. It continues
for four or five days, & during which
time sickness or languor is universal
among the inhabitants of those countries.

lay the foundation for many diseases.
 when ~~this moisture of the air is con-~~
 siderably below the heat of the body,
 it is seldom attended with any mor-
 bid effects. Dr Hunter says the wet
 seasons in Jamaica are not unheal-
 thy where the inhabitants are not
 exposed to any morbid exhalations.
 A temperate air joined with mois-
 ture has a peculiar effect upon
 the skin. It imparts to it its beau-
 tiful red and white complexion.
 The fine complexions of the natives
 of England & Ireland are owing
 chiefly to the constant moisture
 of those countries, for there falls

¶ In South America in South America,
the intense heat of the sun produces a disease
of a very different kind from those which it
induces in the East Indies, & in the further parts
of Europe. It is known among the natives
by the name of Lecka - or ty worm. It is
a fixed and exquisite pain in the Return
which terminates speedily in a mortification
& death. no worm attends it. Its remedy Bacon
Humboldt informed me was a piece of a fresh
lime thrust up the anus. ^{liberis}
≠ The ~~Effects~~ of Insolation is ^{uncommon}

in Jamaica, in fact in 1704 many people
& even horses & oxen perished in the fields from
it. In China Pekin in 163, 11,000 people
perished from it between the 14. & 25. of July.
nearly 67. 0

A Gunnerman in this city lost his ear
for music, & his touch of a musical cord
by a stroke of the sun.

